

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Addiese: COMMISSIONER FOR PATENTS P O Box 1430 Alexandra, Virginia 22313-1450 www.wepto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/649,622	08/28/2003	Satoshi Inami	2003_1218A	5298	
52349 WENDEROTH, LIND & PONACK L.L.P. 2033 K. STREET, NW			EXAM	EXAMINER	
			SWEARINGEN, JEFFREY R		
SUITE 800 WASHINGTON, DC 20006		ART UNIT	PAPER NUMBER		
7707, 50 2000			2145		
			MAIL DATE	DELIVERY MODE	
			04/17/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/649.622 INAMI ET AL. Office Action Summary Examiner Art Unit Jeffrey R. Swearingen 2145 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 20 December 2007. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-11 is/are pending in the application. 4a) Of the above claim(s) _____ is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1-11 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.

1) Notice of References Cited (PTO-892)

Notice of Draftsperson's Patent Drawing Review (PTO-948)

Information Disclosure Statement(s) (FTO/S5/08)
 Paper No(s)/Mail Date _______.

Attachment(s)

Interview Summary (PTO-413)
 Paper No(s)/Mail Date.

6) Other:

5 Notice of Informal Patent Application

Art Unit: 2145

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR
1.17(e), was filed in this application after final rejection. Since this application is eligible for continued
examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the
finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's
submission filed on 11/16/07 has been entered.

Response to Arguments

- 2. Applicant's arguments filed 11/16/07 have been fully considered but they are not persuasive.
- 3. Applicant argues that empty data is null data. This is not supported by the specification. The specification supports a null device, which is not null data. The specification states that empty data is "0 bytes". 0 bytes does not exist when transmitting data. Data must at least have a header if it is to be considered null data. A packet that has a header where the data payload consists solely of "0000" data values, as Applicant intends to claim, is not supported in the specification.
- 4. Applicant's amendments necessitated the new grounds of rejection in this office action.

Claim Rejections - 35 USC § 112

- 5. The following is a quotation of the first paragraph of 35 U.S.C. 112:
 - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 6. Claims 1-11 are rejected under 35 U.S.C. 112, first paragraph, as based on a disclosure which is not enabling. Information critical or essential to the practice of the invention, but not included in the claim(s) is not enabled by the disclosure. See *In re Mayhew*, 527 F.2d 1229, 188 USPQ 356 (CCPA 1976). Applicant argues in the remarks of 11/16/2007 that empty data is null data. This is not supported by the specification. The specification supports a null device, which is not null data. The specification states that empty data is "0 bytes". 0 bytes does not exist when transmitting data. Data must at least have a header if it is to be considered null data. A packet that has a header where the data payload consists solely of "0000" data values, as Applicant intends to claim, is not supported in the specification.

Art Unit: 2145

The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

- Claims 1-3 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- Claims 1-3 refer to an empty data storage section. It is unclear if Applicant is intending to claim a storage section for empty data, or a data storage section that is in fact empty.

Claim Rejections - 35 USC § 103

- 10. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 1-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Olnowich (US 6.092.155) in view of Kato et al. (US 5.832.215).
- 12. In regard to claim 1, Olnowich disclosed a memory controller system which allows for the transmission and receipt of null data (column 8, lines 48-67) which supports functions allowing for switching of ports in an adapter (column 13, lines 21-47) and the transmission of null data (column 14, lines 49-67). The data is changeable (column 19, lines 1-48). Packets may be transmitted that consist solely of a header (column 22, lines 6-14). This is a transmitting-end processing section for performing a processing step, of one of said multiple processing steps, of processing data contained in the stream data, and transmitting the processed data; a receiving-end processing section for receiving the processed data transmitted from said transmitting-end processing section, for receiving empty data, and for performing another processing step, of a next one of said multiple processing steps, of processing the received data; a data temporary storage section for temporarily storing the processed data transmitted from said transmitting-end processing section for erasing any data written thereto in response to a data write, and for returning empty data in response to a data read; and a connection management section for (i) allowing the processed data transmitting-end

Art Unit: 2145

processing section to be received by said receiving-end processing section, via said data temporary storage section, by performing a data write to and a data read from said data temporary storage section, and (ii) allowing empty data to be received by said receiving-end processing section, via said empty data storage section, by performing the data write to and the data read from said empty storage section, wherein: said connection management section is operable to (i) switch a write destination of the processed data transmitted from said transmitting-end processing section, the write destination being switched between said data temporary storage section and said empty data storage section; the switching of the write destination and the switching of the read source being executed by said connection management section based on whether said connection management section is in (i) a normal operation state, (ii) a receiving-end clear wait state which exists after the transmitting-end clear request is received by said connection management section and until the transmitting-end clear request is received by said connection management section and until the transmitting-end clear request is received by said connection management section.

- 13. Olnowich fails to disclose that the data temporary storage and empty data transmission features operate based upon a "change signal". However, Kato disclosed the use of a "ready 0" and "ready 1" signal which controls the operation of processors transmitting data between the two systems. (column 6, lines 51-60). (a control section for transmitting a change signal to instruct a change of a subject of processing, the change signal being transmitted to said transmitting-end processing section and to said receiving-end processing section; said control section, said transmitting-end processing section, said receiving-end processing section, and said connection management section are interconnected and configured such that, if a change signal is transmitted from said control section (i) to said transmitting-end processing section, said transmitting-end processing section is operable to output a transmitting-end clear request to said connection management section is operable to output a receiving-end processing section is operable to output a receiving-end clear request to said connection management section.
- 14. Management of transmission and ports in a network inherently requires control signals to manage the microprocessor commands. Kato presents a system that shows the use of such control signals.

Art Unit: 2145

Olnowich must be controlled in order to operate without race conditions in the computers and to properly execute the wishes of the programmer. It would have been obvious to one of ordinary skill in the art at the time of invention to use commands such as the ready change signal in Kato to control the Olnowich system.

In regard to claim 2. Olnowich further disclosed:

said connection management section is operable to:

select said data temporary storage section as the write destination and the read source when said connection management section is in the normal operation state; column 12, lines 9-27

erase the processed data stored in said data temporary storage section if the transmitting-end clear request or the receiving-end clear request is received when said connection management section is in the normal operation state; column 12, lines 9-27 select said empty data storage section as the read source when said connection management section is in the receiving-end clear wait state; and column 12, lines 9-27

select said empty data storage section as the write destination when said connection management section is in the transmitting-end clear wait state. column 12, lines 9-27

16. In regard to claim 3, Olnowich further disclosed:

said connection management section is operable to:

select said data temporary storage section as the write destination and the read source when said connection management section is in the normal operation state; column 12, lines 9-27

erase the processed data stored in said data temporary storage section if the transmitting-end clear request or the receiving-end clear request is received when said connection management section is in the normal operation state; column 12, lines 9-27 select said empty data storage section as the write destination when said connection management section is in the transmitting-end clear wait state; column 12, lines 9-27

Art Unit: 2145

wherein, when said connection management section is in the receiving-end clear wait sate said connection management section is operable to:

designate as old data any data stored in said data temporary storage section
when the transmitting-end clear request has been received; column 12, lines 9-27
select, as the write destination, a region in said data temporary storage section
where the old data is not stored: column 12, lines 9-27

select, as the read source, a region in said data temporary storage section where the old data is stored while the old data is present; and column 12, lines 9-27

select said empty data storage section as the read source once the old data is no longer present: and column 12. lines 9-27

erase the old data if the receiving-end clear request is received when said connection management section is in the receiving-end clear wait state. column 12, lines 9-27

In regard to claim 4, Olnowich further disclosed:

said transmitting-end processing section and said receiving-end processing section are operable to output the transmitting-end clear request and the receiving-end clear request, respectively, and perform transmission and reception of any data by using a data transmission section and a data reception section, respectively, which provides an accessing function to said connection management section. column 13, lines 21-47, Column 14, lines 49-67

In regard to claim 5, Olnowich further disclosed:

said connection management section is operable to select, if any data transmitted from said transmitting-end processing section cannot be written to said data temporary storage section, whether to (i) perform a process of immediately notifying an error to said transmitting-end processing section, or (ii) perform a process of waiting until it becomes possible to write any data to said data temporary storage section and perform a process of notifying said transmitting-end processing section a result of writing any data to said data temporary storage section. column 13, lines 21-47, Column 14, lines 49-67

19. In regard to claim 6, Olnowich further disclosed:

Art Unit: 2145

20. said connection management section is operable to select, if any data to be received by said receiving-end processing section cannot be read from said data temporary storage section, whether to (i) perform a process of immediately transmitting an error to said receiving-end processing section, or (ii) perform a process of waiting until it becomes possible to read any data from said data temporary storage section and perform a process of notifying said receiving-end processing section a result of reading any data from said data temporary storage section column 13, lines 21-47, Column 14, lines 49-67

- 21. In regard to claim 7, Olnowich further disclosed:
 - A data input section for receiving the stream data as an input. Column 10, lines 3-21
- 22. In regard to claim 8, Olnowich further disclosed:

Said data input section is operable to receive the input of the stream data from a removable recording medium. Column 10, lines 3-21

23. In regard to claim 9, Olnowich further disclosed:

A data output section for outputting the stream of data as a result of performing the multiple processing steps. Column 10, lines 3-21

24. In regard to claim 10, Olnowich further disclosed:

Said data output section is operable to output, to a removable recording medium, the result of performing the multiple processing steps. Column 10, lines 3-21

In regard to claim 11, Olnowich further disclosed:

Said transmitting-end processing section and said receiving-end processing section are operable to output the transmitting-end clear request and the receiving-end clear request, respectively, independent of one another. Column 10, lines 3-21

Conclusion

26. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

 27.
 Houck et al.
 US 5,488,693

 28.
 Gregg et al.
 US 5,559,963

 29.
 Olnowich
 US 6,044,438

 30.
 Lubarsky et al.
 US 4,893,340

Art Unit: 2145

31 Olnowich US 6.122.674

Any inquiry concerning this communication or earlier communications from the examiner should

be directed to Jeffrey R. Swearingen whose telephone number is (571)272-3921. The examiner can

normally be reached on M-F 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor.

Jason Cardone can be reached on 571-272-3933. The fax phone number for the organization where this

application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application

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1000.

Jeffrey R. Swearingen Examiner

Art Unit 2145

/JRS/

Examiner, Art Unit 2145

/Jason D Cardone/ Supervisory Patent Examiner, Art Unit 2145